PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference JK 11977 WO	FOR FURTHER ACTION	See item 4 below	
International application No. PCT/SE2005/000244	International filing date (day/month/year) 22 February 2005 (22.02.2005)	Priority date (day/month/year) 24 February 2004 (24.02.2004)	
International Patent Classification (8th See relevant information in Form F	n edition unless older edition indicated) PCT/ISA/237		
Applicant SANDVIK INTELLECTUAL PROP	ERTY AB		,

1.	 This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a). 				
2.	2. This REPORT consists of a total of 5 sheets, including this cover sheet.				
	In the attached sheets, any refere to the international preliminary		the International Searching Authority should be read as a reference er I) instead.		
3.	This report contains indications	relating to the following items	s: .		
	Box No. I	Basis of the report -			
	Box No. II	Priority			
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			
	Box No. IV	Lack of unity of invention			
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
	Box No. VI	Certain documents cited			
	Box No. VII	Certain defects in the international application			
	Box No. VIII	Certain observations on the international application			
4.	4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis.2).				
			Date of issuance of this report 29 August 2006 (29.08.2006)		
	The International Bure 34, chemin des Col 1211 Geneva 20, Sv	ombettes	Authorized officer Philippe Becamel		
Facsimile No. +41 22 338 82 70			e-mail: pt12@wipo.int		

Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

From the	
INTERNATIONAL SEARCHING AUTHORITY	

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International Patent Classification (IPC) or both nation	al classific	ation and IPC	1	
B23C 5/20 // B23B 27/16				1
Applicant				
Sandvik AB et al				
1. This opinion contains indications relating to the following	llowing ite	ms:		1
Box No. I Basis of the opinion	•			
Box No. II Priority				- [
Box No. III Non-establishment of opinion	n with rega	rd to novelty, inventiv	ve step and industrial applicability	
Box No. IV Lack of unity of invention				
Box No. V Reasoned statement under R	Par No V Proceed statement and an Paris 42 bit 1/a/6) with mound to according incompling stars as industrial			
Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
Box No. VI Certain documents cited				
Box No. VII Certain defects in the interna	tional appl	ication		
Box No. VIII Certain observations on the is	nternations	al application		
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2. FURTHER ACTION			-	İ
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written opinions of this International Searching Au				, urai
If this opinion is, as provided above, considered to be a written opinion of the PEA, the applicant is invited to submit to the				he
IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing				
of Form PCT/ISA/220 or before the expiration of 2	22 months	from the priority date	, whichever expires later.	
For further opinions, see Form PCT/ISA/220.				
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3. For further details, see notes to Form PCT/ISA/220	0.			- 1
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Name and mailing address of the ISA/SE		Authorized officer		
Patent- och registreringsverket				
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Form PCT/ISA/237 (cover sheet) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/SE2005/000244

Во	x No. I	Basis of this opinion
1.	which it wa	It to the language, this opinion has been established on the basis of the international application in the language in its filed, unless otherwise indicated under this item. It is opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 23.1(b)).
2.	With regard claimed inva.	d to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the vention, this opinion has been established on the basis of: material a sequence listing table(s) related to the sequence listing
	b. format o	f material in written format in computer readable form
3.		filing/furnishing contained in the international application as filed. filed together with the international application in computer readable form. furnished subsequently to this Authority for the purposes of search. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to
4.	t Additional	hat in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/SE2005/000244

		ations supporting such statement	charte step of industrial
1. Statement			
Novelty (N)	Claims	1-8	YES
	Claims		NO
Inventive step (IS)	Claims	1-7	YES
	Claims	8	NO
Industrial applicability (IA)	Claims	1-8	YES
	Claims		NO NO

2. Citations and explanations:

The following documents were cited as particularly relevant:

D1: WO 02055245 A1 D2: US 5931613 A1

The invention relates to a cutting tool with connecting surfaces of serration type between the basic body and the cutting insert. The primary object of the invention is to provide a cutting tool that guarantees an even and reliable distribution of the cutting forces acting on the cutting insert.

Document D1 represents closest background art.

Claim 1

Document D1 reveals an indexable insert (fig. 6) for a cutting tool having a serrated connecting surface with a plurality of mutually parallel ridges. The ridges are divided in two sets on the connecting surface.

The invention differs from the document in that the insert according to invention has one or several transverse ridges. The difference solves the problem of achieving a more even distribution of the cutting forces.

The person skilled in the art faces the problem of providing a cutting insert with improved properties regarding securing of the insert and distribution of forces acting on the insert.

In document D2 a cutting insert is revealed which is intended to in an optimal way carry axial and radial forces.

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/SE2005/000244

Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of: Box $\ V$

The insert (fig. 6) is provided with two parallel ridges (6) with a groove (3) and a transverse ridge (4). For a person skilled in the art it seems to be an obvious solution to, in background to what is revealed in D2, provide the cutting insert in D1 with a transverse ridge passing through the serrated areas. Therefore, the claim lacks inventive step.

According to the arguments stated above, the invention according to claim 1-8 is novel. Claims 1-7 are considered to involve an inventive step while claim 8 lacks inventive step. The invention according to claims 1-8 is considered to be industrially applicable.